

Bibliographic Information

Coumarin-fluorescein pair as a new donor-acceptor set for fluorescence energy transfer study of DNA. Mitsui, Tsuneo; Nakano, Hidehiko; Yamana, Kazushige. Department of Applied Chemistry, Himeji Institute of Technology, Himeji, Japan. Tetrahedron Letters (2000), 41(15), 2605-2608. CODEN: TELEAY ISSN: 0040-4039. Journal written in English. CAN 133:105249 AN 2000:269984 CAPLUS (Copyright:2002 ACS)

Abstract

A method for introduction of the 2'-coumarin labeled nucleoside as a fluorescence energy donor into DNA duplexes has been described. Efficient FRET occurs between the coumarin-fluorescein pair in DNA owing to the high quantum yield of the donor. The present donor-acceptor pair may be useful as FRET indicator of DNA structures in soln.